GEUTEBRÜCK

ARGUS

High-Speed Pan/Tilt Head System

Product information

High-precision pan/tilt head made of V4A, extremely fast positioning, for professional use also under roughest weather and environmental conditions. The quick-mounting flange allows to install the weather protection housing type ARGUS-WPH in a very easy and service-friendly way (one person only). Mounting base with total covered cable gland type ARGUS-Base available. Dynamics and drive technology of this pan/tilt head set standards with regards to the high-quality and maintenance-free components used. The modular design with two different sizes of weatherproofed housings allows to use several remote-controllable cameras as well as several high-speed zoom lenses with a focal length of up to 240 mm. Unerring positioning even with largest focal lengths together with an extremely slow system movement and the proportional speed associated with the zoom factor of the lens allows completely smooth and reliable supervision. The integrated position hold technology makes sure that the picture coordinates are kept precisely in postion even under external influences. All internal parameters of the pan/tilt system can be fetched from host which allows operations in very complex scenarios.

- High-speed pan/tilt system made of V4A stainless steel, absolut corrosion free
- Very precise and smooth slow speed operation
- Endless rotation without time limit
- Video- (coaxial) and twisted pair output (both galvanically isolated)
- Position repeatability < +/- 0,01°
- Position hold functionality for balancing external influences
- Quick-mounting flange for weatherproofed housing
- High-precision maintenance-free drive technology (MIL-standard)
- Upright and hanging installation
- Fully integrated into the GEUTEBRÜCK system architectures

Technical data

High-speed pan/tilt head unit: ARGUS-PT-Head/230VAC, ARGUS-PT-Head/110VAC	
Video outputs (via BNC and system plug)	1 x Coaxial, 1 x Twisted pair (both galavanically isolated)
Contact input (via system plug)	1 x Contact input (switching to ground)
Max. pan/tilt speed	200°/s
Min. pan/tilt speed (very slow run)	approx. 0,01°/s, control via MBeg/GCT-LAN
Max. angular acceleration a: time needed for positioning max. 90° b: time needed for positioning max.180°	600°/s² max. 0,75 s max. 1,2 s
Position repeat accuracy	< +/- 0,01°
Max. pan angle	360°endless rotation
Max. tilt angle	+/- 90°
Programmable fixed positions	255
Auto flip	adjustable
Zero calibration	automatic
Peak torque	> 10 Nm
Resolution per rotation	460800 steps
Infinitely variable speed	Yes
Electronic position-hold technology	Yes
Endless rotation without time limit	Yes
Max. acceleration	Adjustable via software settings
Max. speed	Adjustable via software settings
Automatic drive to home position after a pre-set time period	adjustable
Hanging and standing installation	jes
Running direction (Joystick MBeg/GCT-LAN)	Adjustable via software settings
Total convered cable gland	Yes
Integrated control receiver	Yes
Interface	KDec protocol (GEUTEBRÜCK standard)
Dimensions (tip cylinder)	H = 415 mm; Ø =154,5 mm
Material	Stainless steel V4A bruched, material no. 1.4571
Operating temperature	- 40°C to + 55°C (without camera) lower temperature ranges on request
Operating voltage	230 V_{AC} (0.02500) / 110 V_{AC} (0.02510)
Power consumption	max. 300 VA
Protection class	IP 66
Weight (with mains unit)	approx. 12 kg
Load	max. 30 kg
Camera weather protection housing in 2 sizes: ARGUS-WPH/S, ARGUS-WPH/L	
Size 1 (WPH/S) corpus Sun protection	L = 410 mm, Ø = 140 mm L = 545 mm
Size 2 (WPH/L) corpus Sun protection	L = 480 mm, Ø = 168 mm L = 630 mm
Integrated lens controller - automatic position potentiometer test - automatic identification of standard and high-speed lenses	 Focus/Zoom polarities, stopping distance Yes
Integrated camera power supply	24 V_{AC} (the power supply input of the camera must be decoupled galvanically from the mass)
Manual iris control	For voltage controlled iris and motor iris (Pentax lenses without and with AD converter)
Control outputs	3 aux relais, 1 transistor (open collector) (each with 15 different functionalities with Adjustable time limits)
Alarm trigger	4 alarm trigger modes
Self-cleaning front glass	Photocatalytic (hydrophilic coating)
Material	Stainless steel V4A brushed, material no. 1.4571
Type	**Order No.**
ARGUS-PT-Head/230VAC	0.02500
ARGUS-PT-Head/110VAC	0.02510
ARGUS-WPH/S (weatherproof housing, small)	1.02510
ARGUS-WPH/L(weatherproof housing, large)	1.02500
ARGUS-Base(mounting base for ARGUS-PT-Head made of V4A)	5.26011

ARGUS_EN 7.75581 10.07.2006

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GEUTEBRÜCK

ARGUS-IR-LED

High performance long range infrared-beam for the ARGUS-System

Product information

High performance infrared illuminator for the high precision pan-tilt-camera unit ARGUS. The stainless steel housing of the infrared illuminator will be mounted in opposite to the camera housing on the tilt axis of the pan-tilt-unit and is equipped with an easy connection flange for a simple and quick installation process. With the illuminators high performance infrared LEDs the ARGUS-system can perform at it`s best both under daylight and under night-time conditions.

- Quick-mounting flange for simple and efficient installation
- Housing made out of corrosion free V4A stainless steel
- Powering directly through the pan/ tilt-unit
- Excellent illumination of the surveillance area
- Long life time using LED technology

Technical data

Beam angle	Approx. 25°
Wavelength	880 nm
Range	> 80 m (depending on the reflection ratio of the background)
Number of LEDs	360 (36 LED groups)
Operating temperature	Approx. - 20°C up to + 30°C (exacter infos will follow) Deeper temperatures can be realized on request.
Twilight switch	ON: approx. < 500 Lux; OFF: > 600 Lux, switching delayed
LED failure behaviour	In case one LED group (10 LED´s) fails this will cause a reduction in output of 3 %
Operating voltage	24 VAC (powered through the pan/tilt unit)
Optical power	Infos will follow
Power consumption	Approx. 45 W @ 24 VAC
Housing	Stainless steel V4A, front-glass mostly opaque
Protection class	IP 66
Dimensions in mm (W x H x D)	168 x 168 x 300
Weight	Approx. 6 kg
Order No.	**1.02600**

ARGUS-IR-LED_EN 7.75591 04.10.2006

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CAM2IP

The compact video-Encoder for GeViScope and re_porter

Product information

Integrate your analog cameras into the network with no hassle and put the intelligent video management where it can relieve the strain on the network the most – close to the camera. CAM2IP is ideal for indoor or outdoor day/ night cameras. Thanks to MPEG4CCTV encoding it delivers excellent image quality to the network yet requires minimal bandwidth. Optional Video Motion Detection (VMD) / Activity Detection (AD) is available by licence.

- Minimize costs by using already existing camera installation
- Power over Ethernet (PoE) for easy installation
- MPEG4CCTV – video compression perfected for video
- Intelligent bandwidth management (DLS, ICD, RONI)
- Dual Streaming with 25 pictures/s in QCIF, CIF, 2CIF and 4CIF
- Serial RS-422/RS-485 interface for PTZ control and camera setup
- Easily add functionality by means of SW upgrades, also after installation
- Alarm I/O
- Activity Detection (AD)
- Video Motion Detection (VMD)

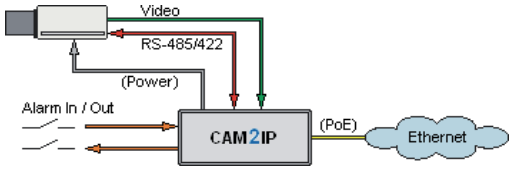
GEUTEBRÜCK
Competence in Video Security

Intelligent bandwidth management:

- **MPEG4CCTV**
  Video compression perfected for video security applications!
  Compression and decompression in real time with latencies below 120 ms. Outstanding image quality precisely when you need it. Relieves network infrastructure and reduces storage requirements. Data export is password protection and is absolutely manipulation-proof for evidential quality documentation admissible in a court of law.
- **Dynamic Live Streaming (DLS)**
  Only requested data are transmitted. Live pictures are sent in precisely the size the user demands. If the viewing window is enlarged, then more data are sent; if it shrinks, then less data are sent.
- **Intelligent Compression Dynamics (ICD)**
  Pictures without motion usually do not contain any information that is relevant to the user, so are processed with low picture rates and low quality. Pictures with motion are delivered in real time and in the desired resolution and quality.
- **Region of Non-Interest (RONI)**
  Irrelevant areas of an image can be defined flexibly so they can then be processed with lower resolution and higher compression.

Intelligent video analysis qualifies the picture material and alerts in critical situations:

- **Activity Detection (AD) - depending on the platform**
  Reliable video motion detection for indoor as well as selected outdoor applications. Extremely low false alarm rate thanks to reliable suppression of global influences.
- **Video Motion Detection (VMD) - depending on the platform**
  Our professional video motion detection for outdoor applications detects and differentiates according to direction and speed so that ‚allowed' motion, for instance exiting, does not trigger a false alarm.



Technical data

Video input	BNC-socket
Video standard	CCIR/EIA (PAL/NTSC)
Video signal	Composite video: 1 Vpp, 75 Ohm
Input and output contact	1 digital input (alarm in), 1 relay output
LAN-Interface	RJ45 connector, 10/100Base-TX
Transmission	UDP (User Datagram Protocol)
Compression/Encoding	Pictures directly will be transmitted in a GeViScope compatible data format: M-JPeg, MPEG4CCTV
Sensor	Picture evaluation possible directly on the fly by using GEUTEBRÜCK own analysis methods AD (Activity Detection), VMD (Video Motion Detection)
LED display elements	Ethernet link, Ethernet activity, Video signal activity, Video signal ok, Power
Serial interface	Transparent data interface RS-422 Full-Duplex, RS-485 Halb-Duplex
Power supply CAM2IP	PoE in accordance with IEEE 802.3af or via seperate plug-in mains unit 5 - 15 V DC / 2,5 W (200 mA @ 12 V DC)
Power supply camera	When using PoE, CAM2IP is able to act as power source for the connected camera: Up to 600 mA, 12 V DC
Dimensions in mm (W x H x D)	70 x 25 x 127 (w/o protruding components), 70 x 25 x 163 (size over-all)
Weight	Approx. 270 g
Protective rating	IP20
Operation temperature	0 - 50 °C
Optional accessories	CAM2IP/THR-Adapter (Top Hat Rail mount adapter)
Order No.	**0.34860**

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CAM2IP_7.75701_PI_EN 06.04.2009

VIPCAM-DN101/PX

Real day/night network camera for direct integration into the GEUTEBRÜCK system architecture

Product information

This high resolution day/night network camera with automatic IR-cut filter delivers clear sharp pictures even in scenes with widely varying light conditions. Perfect for use near large windows or in entrance halls. No vertical smear effects in the image even when bright lights such as car headlights fall directly on the camera. The first in a new range of products in GEUTEBRÜCK quality. Service - friendly and offering the complete range of high performance DSP capabilities. Provides many functions to relieve the network and reduce storage requirements. Video motion detection (VMD) and activity detection (AD) available as options depending on the platform used.

- True day/night camera with mech. IR-cut filter
- Additional analog BNC video output
- Direct integration into GeViScope or re_porter
- Picture integration up to 32x (Slow shutter)
- Supports 25 pictures/s in QCIF, CIF, 2CIF and 4CIF at all quality levels of compression
- Multiple power sources 12 V DC, 24 V AC or POE
- Activity Detection and Video Motion Detection optionally inside the camera (license required)
- Usage of existing network structures
- Directly to be parametrized via the GeViScope standard setup tools
- Easy maintenance and functional extensions using software upgrades

GEUTEBRÜCK
Competence in Video Security

Technical data

Image sensor (Chip)	1/3" PIXIM DPS CMOS Sensor
Video standard	CCIR/PAL (composite)
Scanning system	Scanning: Progressive scan Processing for CCIR/PAL: 2 : 1 interlace
Scanning frequency (CCIR/PAL)	15.625 kHz (H), 50 Hz (V)
Video output	Composite video: 1 Vpp, 75 Ohm (BNC)
LAN-Interface	RJ45 connector, 10/100Base-TX
Transmission	TCP/IP (Transmission Control Protocol)
Compression/Encoding	Pictures directly will be transmitted in a GeViScope compatible data format: M-JPeg MPEG4CCTV
Input and output contact	1 digital input (alarm in) 1 relay output (Max. 30 V DC, 1 A, Resistive load)
Input and output connectors	Ethernet: RJ45 socket Video output: BNC socket Power: 2 pin push-in type terminal Alarm/Relay: 6 pin push-in type terminal External memory: SD-card slot
Pixel (H x V)	720 x 540 (effective)
Horizontal resolution	520 TV lines
Minimum sensitivity: Color B/W	 1 Lux / F1.4 (50 IRE) IR cut filter, AGC on 0.2 Lux / F1,4 (50 IRE) IR pass filter, AGC on
Synchronization	Internal
S/N ratio	50 dB (AGC off)
Wide Dynamic Range	Adjustable
White balance	Automatic / Manual Switchable via on screen menu (OSD)
Shutter	Automatic electronic (AES), adjustable in different steps
Slow Shutter	On / Off - Picture integration up to 32x (max.)
Digital noise reduction	On / Off
Automatic gain control (AGC)	9 steps, adjustable via on screen menu (OSD): Off; Low, Mid, High, Hyper-AGC
Camera ID function	24 alphanumeric characters
Color / B/W switching	Internal automatic, via contact or manual
Sensor	Picture evaluation possible directly on the fly by using GEUTEBRÜCK analysis methods directly on VIPCAM (depending on the license model of each connected recording unit) Licence/GSC/AD (Activity Detection) Licence/GSC/VMD (Video Motion Detection)
Lens mounting	CS-mount / C-mount (with C/CS-adapter)
Flange back	Adjustable
Lens connection	DC lenses (AI-DC) and video signal controlled lenses (AI) (connection via standard 4-pin socket)
Operating temperature	- 10 °C to + 50 °C
Humidity in operation	30 % to 90 % rel. humidity (non condensing)
Voltage supply	12 V DC, 24 V AC ± 10 % or PoE(IEEE 802.3af)
Power consumption	24 V AC: approx. 6.2 W 12 V DC: approx. 6 W POE: approx. 7,2 W
Dimensions in mm (W x H x D)	62 x 55 x 134
Weight	Approx. 550 g
Accessories	Lens plug included in shipment
Order No.	**5.05000**

VIPCAM-DN101/PX_PI_EN 26.08.2009

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GEUTEBRÜCK

Weather- and dustproof housings

Series 300

Product information

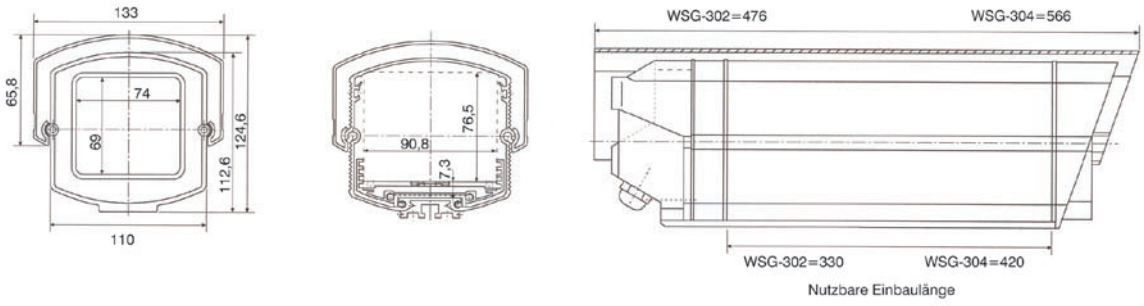
- 4-step mounting-height adjustment
- 3 x cable glands
- Self-regulating PTC heating element
- Temperature regulation via heating element and additional safety thermostat
- Isolated camera mounting to avoid ground-loops
- VDE approved construction
- IP-66 protection rating
- TÜV approved safety (German safety standards authority)

Technical data

Technical specification	WSG-302	WSG-304X
Heater supply	230 VAC	
Safety thermostat supply	Max. 250 VAC	
Thermostat functions	On: +8 °C / off: +15 °C	
Cable access	3 x PG-9 cable glands	
Dimensions (B x H x T) outer size usable internal size	 Approx. 133 x 124.6 x 476 mm (w x h x d) approx. 90.8 x 76.5 x 330 mm (w x h x d)	 Approx. 133 x 124.6 x 566 mm (w x h xd) approx. 90.8 x 76.5 x 420 mm (w x h x d)
Finish	Powder coated, pebble grey, RAL 7032	
Protection rating	IP 66	
Order No.	5.15580	5.15620

Order No.	Type	Description
5.15590	SSG-302	Dustproof housing without self-regulating heater or sun-shield colour pebble grey, RAL 7032
5.15580	WSG-302	Weatherproof housing with self-regulating heater additional safety thermostat sun-shield colour pebble grey, RAL 7032 heater supply 230 VAC
5.15620	WSG-304X	Weatherproof housing with self-regulating heater additional safety thermostat sun-shield integrated cable distribution circuit board for connecting network, video, and control leads (for motorised zoom lenses), colour pebble grey, RAL 7032 heater supply 230 VAC

Dimensions WSG-302 / WSG-304 in mm



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WSG-300_EN 02.06.2006

GEUTEBRÜCK

SSG-401/2, WSG-401/3, WSG-401/3DK, WSG-421/3

Compact weather- and dustproof housings

Product information

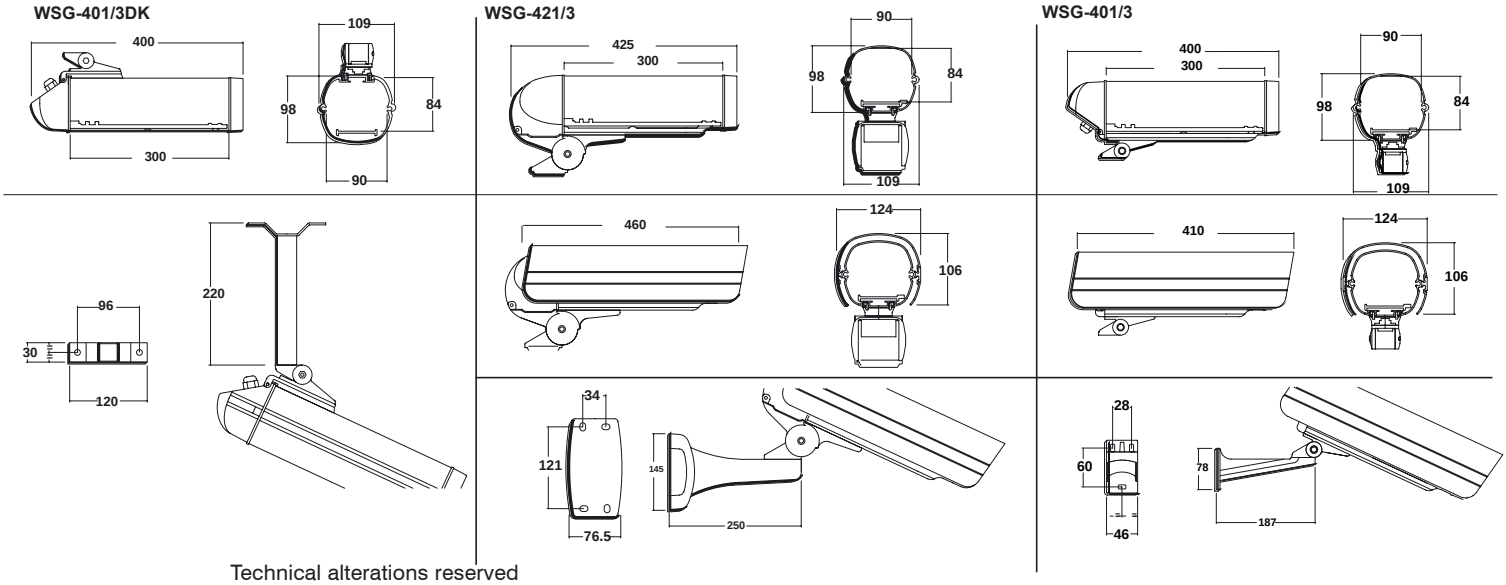
The compact weather- and dust-proof housings of series 400 with it´s elegant design are applicable for various indoor or outdoor situations. The three cable glands in combination with the hinged housing body enable an easy and functional installation. All screws within the housing body are out of stainless-steel. Low voltage cameras as well as other accessories can be powered and adapted by using additional build-in mains units. A special designed ceiling mount type with integrated bracket is available (type 401/3DK). To prevent the front glass from mist all weatherproof variants are equipped with a temperature controlled front glass heater.

- Excellent price/performance ratio for 230 VAC cameras
- Aluminium case with V2A stainless-steel screws
- Internal camera mounting-height adjustment
- Temperature regulation via PTC heating element and additional safety thermo-stat
- Isolated camera mounting to avoid ground-loops
- VDE approved construction
- IP-66 protection rating
- TÜV approved safety (German safety standards authority)

Technical data

	SSG-401/2	WSG-401/3	WSG-401/3DK	WSG-421/3
Description	Dustproof housing without sun-shield, heater or safety thermostat	Weatherproof housing with sun-shield, self-regulating heater and safety thermostat	Weatherproof housing with sun-shield, self regulating heater, integrated power connection board and safety thermostat	Weather proof housing with sun-shield, self-regulating heater, integrated power connection board and safety thermostat
Folding down	YES			
Concealed cable access	NO			YES
Finish	RAL 7032			
Case	Aluminium			
Heater supply	NO	230 VAC		
Cable access	3 x PG-9 cable glands			4 cable glands- (12 mm in diameter/ concealed access)
Outer dimensions in mm (W x H x D)	109 x 98 x 410			109 x 98 x 430
Usable internal size in mm (W x H x D)	80 x 75 x 300			
Protection rating	IP 66			
Weight	1,8 kg	2,6 kg	Approx. 3 kg	4,7 kg
Order No.	**5.15741**	**5.15752**	**5.15756**	**5.15761**

Accessories			
Type	**WK-400**	**Ceiling mount incl.**	**Wall mount incl.**
Description	Adjustable, wall-mounting bracket with locking screw, RAL 7032 (pebble grey)	Ceiling mount bracket with locking screw, RAL 7032 (pebble grey)	Adjustable wall mount bracket with concealed cable access and locking screw, RAL 7032 (pebble grey)
Order No.	**5.18680**	**-**	**-**
Type	**MK-300**	**-**	**MAK-W**
Description	Mast console	-	Mast mount adapter for the WSG-421
Order No.	**5.18370**	**-**	**5.18371**
Type	**NT/DC-1500 mains unit**		
Description	230 VAC / 12 VDC, 1500 mA		
Order No.	**5.03630**		



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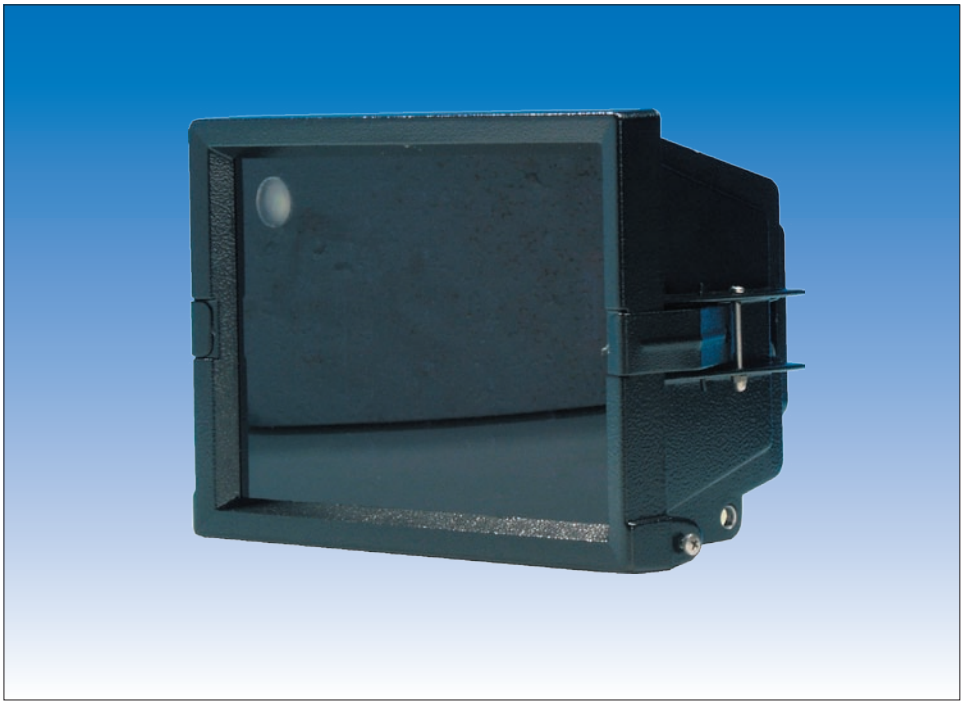
Series-400_EN 7.75606 06.12.2006

Productinformation

GEUTEBRÜCK

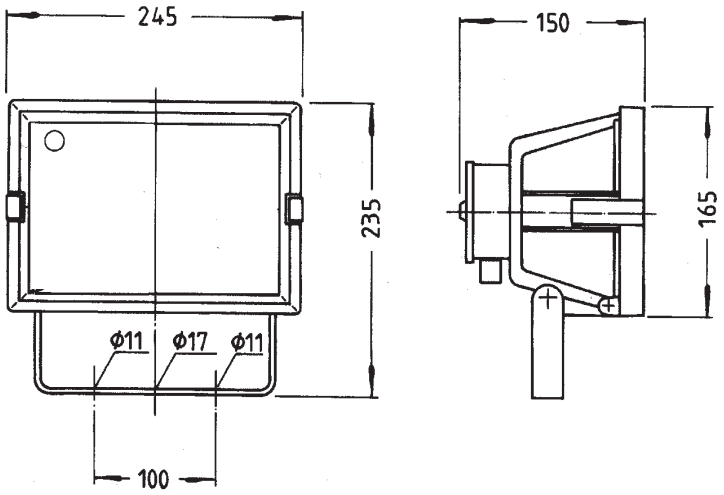
IR-LED "Illuminator" HELIOS LIR-60/880-50
IR-LED "Illuminator" HELIOS LIR-60/880-25

Energie saving LED - infrared illuminator with integrated twilight switch



- **High efficiency**
- **High reliability even when a LED fails**
- **Integrated PSU**
- **Extrem low maintenance costs**
- **Unobstrusive and cost effective installation**
- **Integrated twilight switch (add on feature)**
- **Low heat-build-up**

Front / Side view



All dimensions in mm

Technical Data

	LIR-60/880-50	LIR-60/880-25
Angle of radiation	approx. 50°	approx. 25°
Range	approx. 42m	approx. 55 m
Wavelength	880 nm	
Number of LEDs	340	
Operation temperature	- 20°C bis +30°C (oder 40°C) The live span of the LEDs depends on temperature. Therefore it is recommended not to exceed an operating temperature of 30°C with long-lasting effect.	
Twilight switch	ON: below approx. 500 Lux; off: over 600 Lux, delayed switching	
LED-failure behaviour	In case of failure of one LED group (out of 20): powerloss off 5%	
Operating voltage	230 V_{AC} to 240 V_{AC} ± 10%	
Current consumption	approx. 0,25 A	
Power consumption	approx. 60 W an 230 V_{AC}	
Housing	Aluminium, black finish, front window mainly non transparent	
Type of protection	IP 55 (complete protection against dust deposits and water jets)	
Dimensions in mm (BxHxT)	245 x 165 x 152; with mounting bracket: 235 (H)	
Weight	approx. 2,9 kg	

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Video Link

CFO121 MULTIMODE 1 CHANNEL VIDEO WITH DUPLEX AUDIO/DATA/CC LINK

The CFO First Mile series provides high quality reliable transmission of video, audio, data and contact closure information for CCTV applications such as security and surveillance.

CFO121 link offers zero delay video transmission with three bi-directional data, two audio and one contact closure signals over one multimode fibre.

High quality video pictures can be achieved on a single multimode fibre, over distances up to 3...3,7 km depending on the type of fibre used.

The application area covers for the transmission from camera to monitoring centre as well as the first part of a total video network from camera to collection point for multi-channel video transmission or video networking.

CFO121 is available in three different sizes. CRT/CRR121 units are used for standard 19" CSR rack installations, as well as for stand-alone installations in CMA wall mount adapter.

CMT/CMR121 units are compact size, field-hardened stand-alone units for field-hardened installations.

CCT121 unit is having the smallest form factor, available also for field-hardened stand-alone installations.

The CFO121 link is compatible with all CFO system mechanics, and as with all CFO platform products, the unit meets all international EMC and environmental requirements.

Field hardened CCT121 and CMT121 stand-alone units.

VN

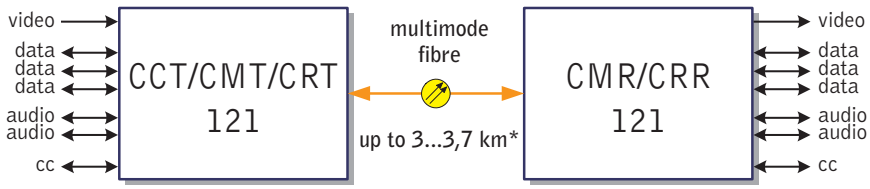
Video link

CFO121

FEATURES AND BENEFITS

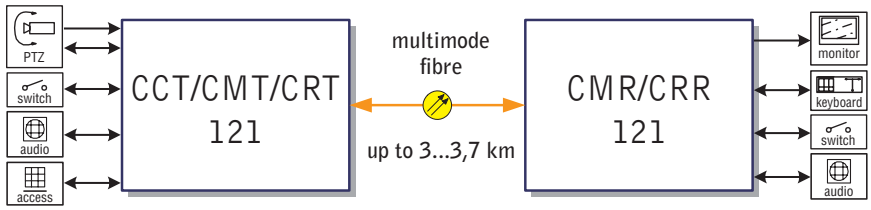
- High performance uncompressed zero delay digital video, SNR 70 dB
- 12 bit video sampling
- PAL/NTSC/CVBS video
- Bi-directional data/audio/contact closure transmission (Tx <--> Rx)
- Supports EIA232/422/485 data, interfaces configurable
- Transmission on one multimode fibre up to 3 km
- Available also in a compact-size design for camera housing installations
- Stand-alone models for field hardened operation (-34 ...+74 °C)
- International EMC and environmental conformance

BLOCK DIAGRAM



*) The typical bandwidth limited optical transmission distance is 3.7 km for 50/125µm fibre and 3 km for 62.5/125µm fibre

APPLICATION EXAMPLE



TECHNICAL SPECIFICATIONS

Parameter	Specification	Note
Optical (video + data)		
Output wavelength	1310 nm	
Output power	-3 dBm	into 50/125 µm fibre
	+1 dBm	into 62.5/125 µm fibre
Input sensitivity	-18 dBm	
Optical (return data)		
Output wavelength	850 nm	
Output power	-3 dBm	into 50/125 µm fibre
	+1 dBm	into 62.5/125 µm fibre
Input sensitivity	-18 dBm	
Video		
Number of channels	1 x uni-directional	
Sampling rate	16 MHz	
Sampling resolution	12 bit	
Impedance	75 ohm	
Level	1 Vpp	
Bandwidth	5.5 MHz	-1 dB
	6.5 MHz	-3 dB
C/L gain inequality	3 %	
C/L delay inequality	60 ns	
Differential gain	< 2 %	
Differential phase	< 2 °	
S/N ratio	70 dB	
Audio		
Number of channels	2 bi-directional	unbalanced
Sampling frequency	62.5 kHz	
Sampling resolution	16 bits	
Input impedance	10k ohm	
Output impedance	1k ohm	
Nominal level	+0 dBV	
Clipping level	+12 dBV	
Frequency response	1 dB 0.02 ...20 kHz	ref. 1 kHz
S/N ratio	64 dBqp	CCIR weighted

Parameter	Specification	Note
Data		
Number of channels	3 bi-directional	
Data 1 format	RS232	non-selectable
Data 2 & 3 format	RS232/422/485	selectable
Data rate	0...160 kbps	
Oversampling rate	1.6 MHz	
Dwelltime setting	50...10000 µs	RS485
Contact Closure		
Number of channels	1 bi-directional	
Data rate	5 Hz	
Management		
Type	command line interface (CLI)	
Protocol	VT100/102, ANSI	
Data format	RS232	
General		
Supply voltage	10.5...14 V DC	regulated
Current consumption (max)	600 mA	12 V
Dimensions (H x W x D) *)	3U x 10HP x 190 mm	CRT/CRR121
	133 x 54,2 x 88 mm	CMT/CMR121
	115,5 x 50,5 x 85 mm	CCT121
Weight	0.5 kg	
Connectors	1 x BNC female	video
	4 x RJ-45 female	data/audio/mgmt
	1 x ST	optical
Operating temperature	-34...+74 °C	field hardened
Storage temperature	-40...+80 °C	
Humidity	0...95 %	non condensing
Enclosure classification	IP21	
Vibration	EN50130-5: 1995	
Damp heat	BS2011 p2.1, test dB, 95%rh 25...40 °C	
Emissions	EN61000-6-4, EN55022-B	
Susceptability	EN50130-4, EN50082-1	

Notes

*) Without connectors

Order No. CRT-121 5.23753
Order No. CMT-121 5.23754
Order No. CCT-121 5.23755
Order No. CRR-121 5.23756
Order No. CMR-121 5.23757

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CFO121 V.1 11/05

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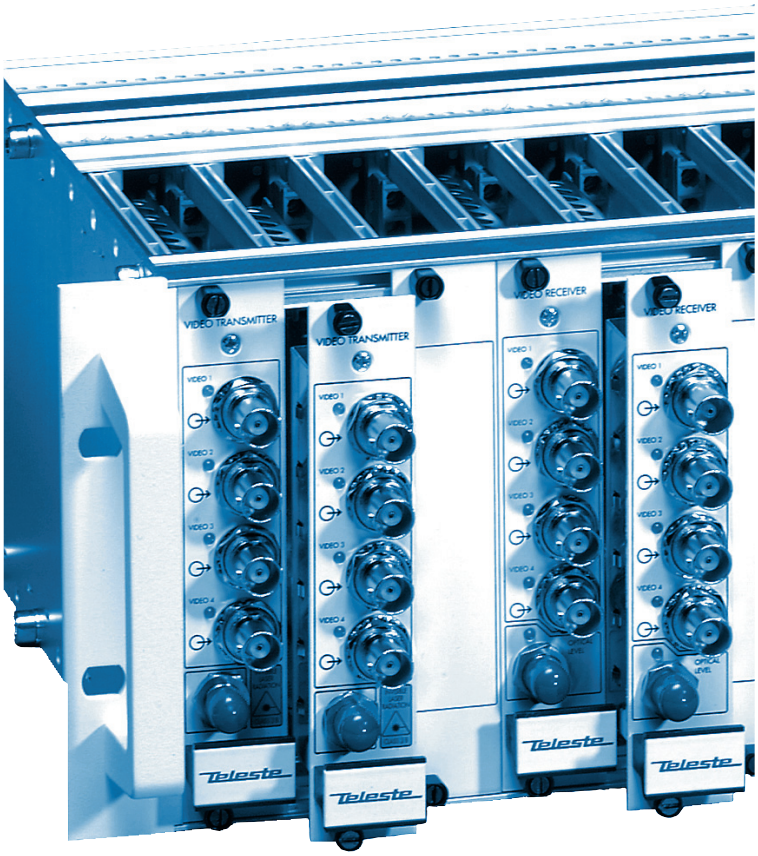
CFO SERIES - CFO411

MULTIMODE 4CH LOW COST VIDEO ONLY LINK

The CFO411 link provides low cost short haul uni-directional transmission of 4 video channels on 1 multimode optical fibre at 860 nm for up to 1...1.5 km. The product utilises the latest uncompressed digital technology to provide very high performance cost effective video transmission. All common video formats are supported from the same unit which is compatible with all CFO installation systems and can be used in standalone or rackmounted applications. As with all CFO platform products the CFO411 unit meets all international EMC and environmental requirements.



Video x 4

FEATURES AND BENEFITS

- Four Channel Video Multiplexer
- High Performance Uncompressed Digital Video
- PAL/NTSC/CBVS or Y/C (2) Video Input
- Simple Low Cost Short Haul Link
- Supports All Video Types in Same Unit
- Uni-directional Video Transmission on 1 Multimode Fibre up to 1...1.5 km Depending on Fibre Bandwidth
- True Plug and Play - No Adjustments, Switches, etc.
- Same Units for Rackmount or Standalone
- Mechanically Compact and Ruggedised
- International EMC and Environmental Conformance
- Compatible with all CFO Installation Systems
- CE Approved

CFO FIRST MILE SERIES - CFO411
MULTIMODE 4CH LOW COST VIDEO ONLY LINK

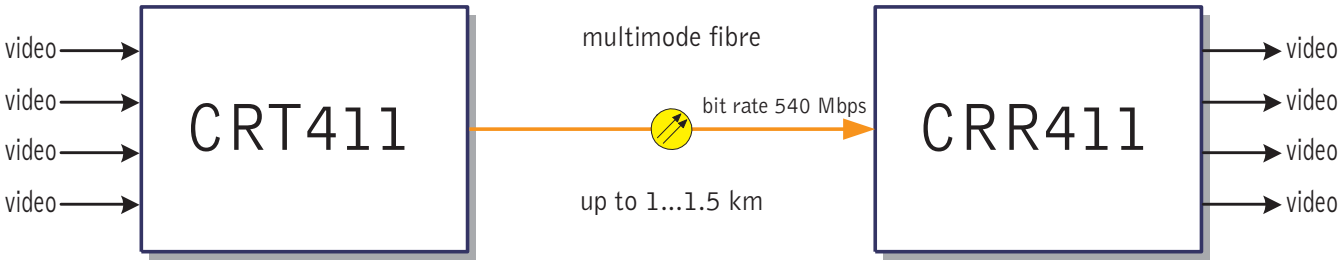
TECHNICAL SPECIFICATIONS

(Typical values unless otherwise stated)

PARAMETER	VALUE	UNIT	COMMENTS
Optical			
Output/Input Wavelength	860	nm	
Output Power	-4	dBm	multimode fibre
Spectral Width	3	nm	
Received Power (Min)	-20	dBm	to meet specifications
Link Budget	16	dB	
Bit Rate (Forward)	540	Mbps	CRT to CRR
Video			
Number of Channels	4 / 2		composite / S-video
Sampling Frequency	13.5	MHz	
Sampling Resolution	8	bits	
Source and Load Impedance	75	ohm	
Return Loss	30	dB	0.1 MHz to 5.5 MHz
Input and Output Signal Levels	1	Vp-p	
Input Overload Level	1.5	Vp-p	DC component
Insertion Gain	± 10	%	1 V
Bandwidth	5.5	MHz	
Line Time Distortion	2.5	%	25 µs Bar 'K' rating
Short Time Distortion	2.5	%	2T Pulse 'K' rating
Short Time Distortion	5	%	2T Pulse to Bar ratio
C/L Crosstalk	0.2	%	n/a for S-Video
Luminance Non Linearity	3.5	%	
C/L Gain Inequality	3	%	
C/L Delay Inequality	90	ns	
Differential Gain	1	%	
Differential Phase	1	°	n/a for S-Video
S/N Ratio	60	dB	unified, weighted

PARAMETER	VALUE	UNIT	COMMENTS
Electrical			
Supply Voltage	10.5...14	VDC	regulated
Current Consumption (Max)	550	mA	CRT411
Current Consumption (Max)	450	mA	CRR411
Mechanical			
Dimensions (H x W x D)	3U x 5HP x 190 mm		
Weight	0.7	kg	
Connectors			
Video	BNC female		
Optical	ST		
Environmental			
Operating Temperature	-10...+55	°C	
Storage Temperature	-30...+70	°C	
Humidity	0...95	%	non condensing
Vibration	EN 50130-5: 1995		
Damp Heat	BS2011 p2.1, test dB, 95%rh 25..40 °C		
Electromagnetic Compatibility (EMC)			
Emissions	EN 50081-1, EN 55022-B		
Susceptability	EN 50130-4, EN 50082-1		

BLOCK DIAGRAM



Order No. CRT-411 5.23770
Order No. CRR-411 5.23780

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CFO411tib_v2
11/2004

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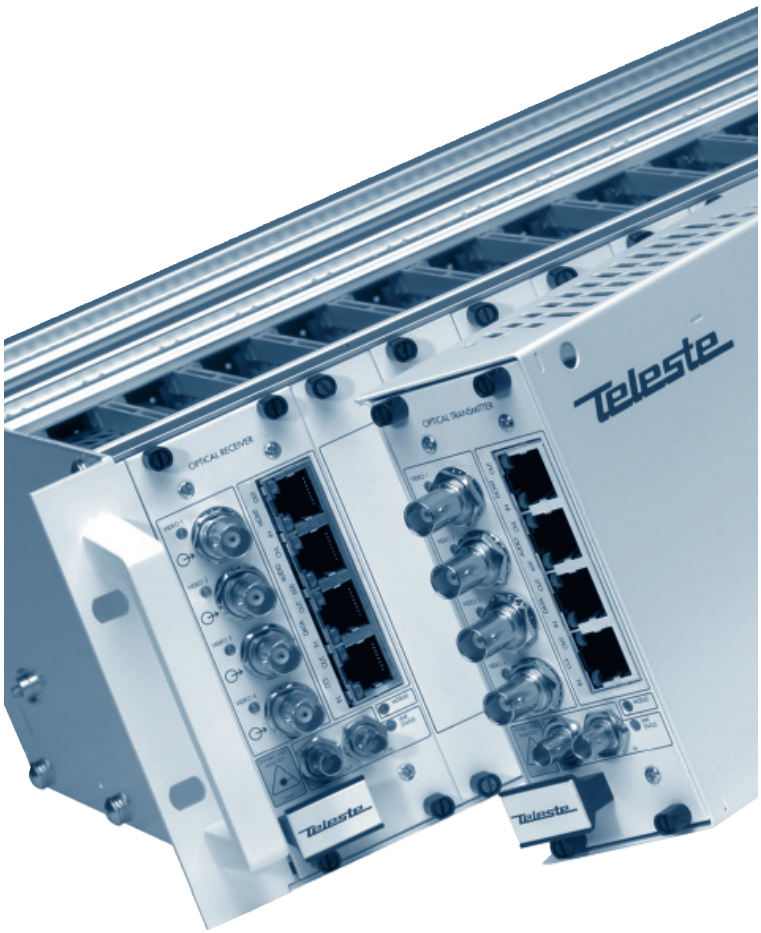
CFO SERIES - CF0422

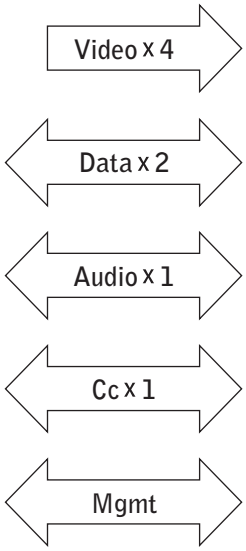
MULTIMODE 4CH VIDEO DUPLEX AUDIO/DATA/CC LINK

The CF0422 link provides transmission of 4 video channels uni-directionally and 2 data, 1 audio and 1 contact closure channel bi-directionally on 2 multimode optical fibres at 1310 nm for up to 4...5 km. The product utilises the latest uncompressed digital technology to provide very high performance video and audio transmission and reliable error free data services. All common data protocols are supported and are easily selectable from the same unit. As with all CFO platform products the unit meets all international EMC and environmental requirements.



FEATURES AND BENEFITS

- Four Channel Video Multiplexer
- High Performance Uncompressed Digital Video
- PAL/NTSC/CBVS or Y/C (2) Video Input
- Bi-directional Audio/Data/Contact Closure Transmission (CRT <--> CRR)
- Supports All Common Protocols in Same Unit
- Bi-directional on 2 Multimode Fibres up to 4...5 km Depending on Fibre Bandwidth
- True Plug and Play - No Adjustments, Switches, etc.
- In-band Configuration and Management
- Same Units for Rackmount or Standalone
- Mechanically Compact and Ruggedised
- International EMC and Environmental Conformance
- Compatible with all CFO Installation Systems
- CE Approved



CFO FIRST MILE SERIES - CFO422
MULTIMODE 4CH VIDEO, DUPLEX AUDIO/DATA/CC LINK

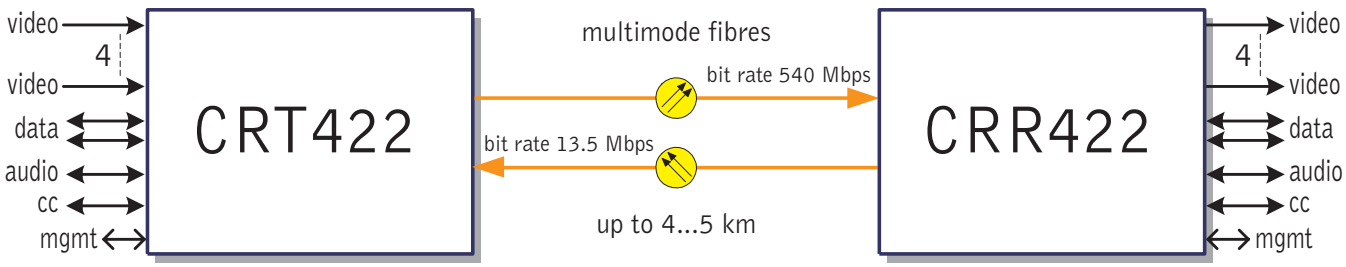
TECHNICAL SPECIFICATIONS

(Typical values unless otherwise stated)

PARAMETER	VALUE	UNIT	COMMENTS
Optical			
Output/Input Wavelength	1310	nm	
Output Power	-7	dBm	multimode fibre
Spectral Width	3	nm	
Received Power (Min)	-20	dBm	to meet specifications
Link Budget	13	dB	
Bit Rate (Forward)	540	Mbps	CRT to CRR
Bit Rate (Return)	13.5	Mbps	CRR to CRT
Video			
Number of Channels	4 / 2		composite / S-video
Sampling Frequency	13.5	MHz	
Sampling Resolution	8	bits	
Source and Load Impedance	75	ohm	
Input and Output Signal Levels	1	Vp-p	
Input Overload Level	1.5	Vp-p	DC component
Insertion Gain	± 10	%	1 V
Bandwidth	5.5	MHz	-3 dB
Line Time Distortion	2.5	%	25 µs Bar 'K' rating
Short Time Distortion	2.5	%	2T Pulse 'K' rating
Short Time Distortion	5	%	2T Pulse to Bar ratio
C/L Crosstalk	0.2	%	n/a for S-Video
Luminance Non Linearity	3.5	%	
C/L Gain Inequality	3	%	
C/L Delay Inequality	60	ns	
Differential Gain	1	%	
Differential Phase	1	°	n/a for S-Video
S/N Ratio	60	dB	unified, weighted
Audio			
Number of Channels	1		bi-directional
Sampling Frequency	52	kHz	
Sampling Resolution	16	bits	
Input Impedance	600/>10k	ohm	selectable
Output Impedance	10	ohm	
Nominal Level	+6	dBm	
Clipping Level	+12	dBm	
Insertion Gain	± 1	dB	0 dBm
Frequency Response	0.02...20	kHz	1 dB, ref. 1 kHz
Harmonic Distortion	0.1	%	
S/N Ratio	70	dBqp	CCIR weighted

PARAMETER	VALUE	UNIT	COMMENTS
Data			
Number of Channels	2		bi-directional
Data 1 Format	RS232		non-selectable
Data Rate	0...120	kbps	
Data 2 Formats	RS422/485/TTL		selectable
Data Rate	0...160	kbps	
Oversampling Rate	1.6	MHz	
Data Jitter	10	%	at max data rate
Dwelltime Setting	50...10000	µs	RS485
Contact Closure			
Number of Channels	1		bi-directional
Data Rate	5	Hz	
Latency	100	ms	
Management			
Type	command line interface (CLI)		
Protocol	VT100/102, ANSI		
Data Format	RS232		
Communication	CRT <--> CRR		bi-directional
Electrical			
Supply Voltage	10.5...14	V DC	regulated
Current Consumption (Max)	800	mA	steady state
Mechanical			
Dimensions (H x W x D)	3U x 10HP x 190 mm		
Weight	0.7	kg	
Connectors			
Video	BNC female		
Audio/Data/Management	Rj-45 female		
Optical	ST		2 pcs
Environmental			
Operating Temperature	-10...+55	°C	
Storage Temperature	-30...+70	°C	
Humidity	0...95	%	non condensing
Vibration	EN 50130-5: 1995		
Damp Heat	BS2011 p2.1, test dB, 95%rh 25...40 °C		
Electromagnetic Compatibility (EMC)			
Emissions	EN 50081-1, EN 55022-B		
Susceptability	EN 50130-4, EN 50082-1		

BLOCK DIAGRAM



Order No. CRT-422 5.23771
Order No. CRR-422 5.23781

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CFO422tib_v3H
11/2004

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GEUTEBRÜCK

MBeg/GCT-3X-LAN

Multifunctional operator keyboard with LAN interface

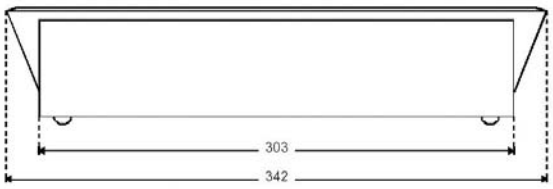
Product information

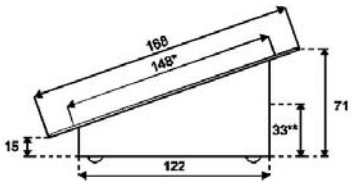
The versatile operating unit from GEUTEBRÜCK. MBeg/GCT-3X-LAN combines convenient operation for the user with GEUTEBRÜCK's proven technology. The illuminated graphic display, with its programmable softkeys, makes operation clear and straightforward for the user, who therefore always has every situation under control – supported by the reliable, user-friendly joystick with integrated zoom function. Six additional, freely programmable function keys guarantee individual customisation to your needs. The low wear, stainless-steel keyboard ensures a long service life.

- Keyboard made of wear-resistant stainless steel
- Zooming function via integrated joystick
- 10/100 MBit LAN (Ethernet) interface
- Operation of all GEUTEBRÜCK systems and system components

Technical Data

General	
Display	240 x 64 pixels, STN graphic/text, CCFL back-lit
Operator controls	Stainless-steel keyboard with joy-stick: 8 soft-keys, 2 menu select keys, 6 user-programmable function keys and 3 x 4 numeric keypad
Power supply	8 - 12 VDC
Current consumption	max. 800 mA
Case	Stove-enamelled steel, RAL 5009, desktop or recessed mounting
Dimensions	342 x 71 x 167mm (w x h x d)
Interfaces	
Serial	1 x RS-232, 9-way D socket 1 x RS-422 full duplex, RJ-45
Ethernet	10/100Mbit/s LAN, RJ-45
Alarm inputs	4 control inputs (to VdS 2194/2252)
Control outputs	3 x relay outputs, 24 VDC/1 A





unit mm

7.75526 V 2.1 DFS 01/06 1000

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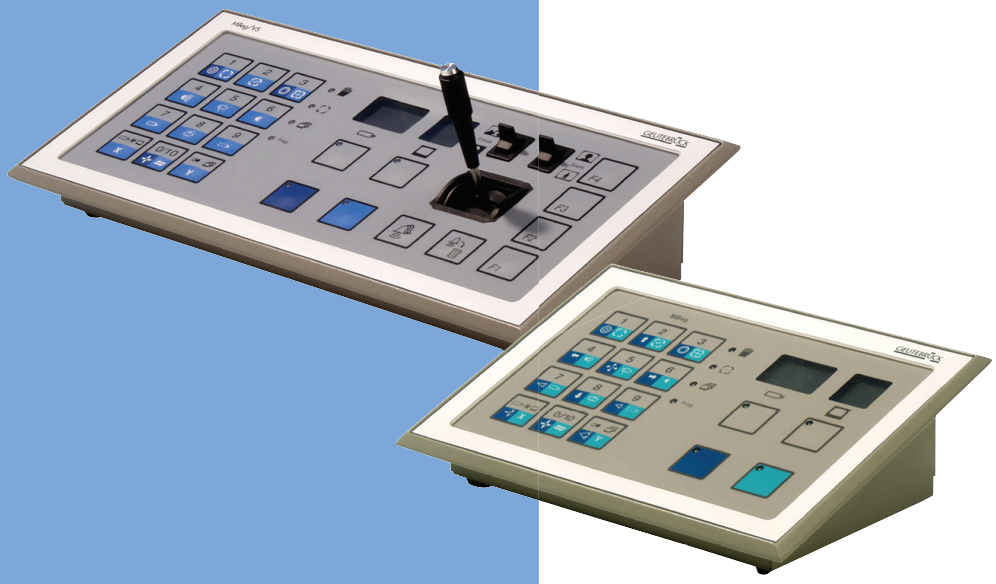
GEUTEBRÜCK

MBeg Series

Multifunction Control Keyboards from the MBeg Series

Product information



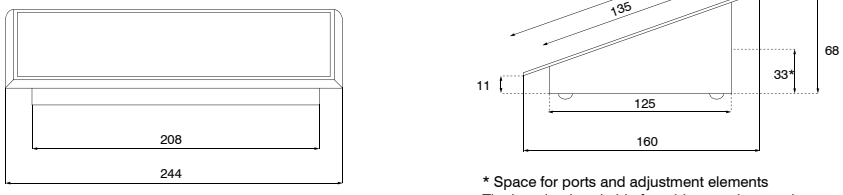
MBeg series, multifunction control keyboards provide control of all GEUTEBRÜCK matrices and matrix independent control of multiple pan/tilt/zoom cameras in conjunction with KDec-300 camera decoders and/or UniLink protocol converters, via remote control serial bus interfaces.

- Remote control camera functions compatible to KDec-300 and TK-C675
- Programming and recall of 40 preset camera positions
- Camera remote control by joy-stick and tab-switch (MBeg/VS) or by membrane panel (MBeg)
- Auxiliary function control e.g. ‚lighting on/off ‚,“wash-wipe“
- 4 user-programmable function keys (MBeg/VS)
- Parallel connection and operation of multiple control keyboards on bus serial interface
- Robust desktop or flush mounted unit with hardwearing tactile membrane keypad

Technical Data

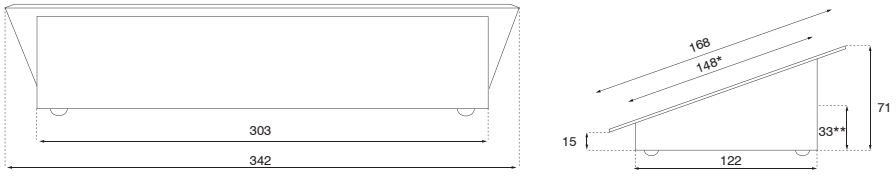
Technical specification	MBeg	MBeg/VS
Supply voltage	8.7 VDC via separate SNT/8.7 power supply unit	
Power consumption	Approx. 60 mA	Approx. 90 mA
Parallel output	CMOS level according to operation voltage, 0V = low / Vcc = high (for use with older GEUTEBRÜCK equipment)	
Serial output	RS-232 compatible TTL levels: 0V = low/aprox. 4V = high: data rate 300/1200 Bd (default) data format: 7 data, 1 start, 1 stop bits space parity	
Maximum cable length, MBeg bus (serial in/ output)	Approx. 250 m at 1200 Bd, approx. 700 m at 300 Bd (without line drivers, wire cross section> 0.5 mm²)	
Remote control driver	-	RS-422/485 compatible simplex, balanced output
Camera remote control	All functions via tactile membrane keypad	Pan-/tilt via joy-stick, focus/zoom lens via rocker switches, auxiliary functions via tactile membrane keypad
Max. cable length, KDec remote control bus (RS-422/485 compatible)	-	7000 m at a data rate of 1200 Bd (without additional repeater); Cable type: telecommunication circuit, shielded, twisted-pair, Ø 0.6 mm² -- 0.8 mm²
Case	Steel, stove enamelled, similar to RAL 7030	
Dimensions	242 x 71 x 167 mm (w x h x d)	342 x 71 x 167 mm (w x h x d)
Weight	Approx. 1.15 kg	Approx. 1.4 kg
Order No.	**0.50020**	**0.50500**

Dimensions MBeg in mm



* Space for ports and adjustment elements
The housing is suitable for table or rack mounting

Dimensions MBeg/VS in mm



Please note for installation:
* Measurement considers the screw connections underneath the keyboard
** Space for ports and adjustment elements (keep free)

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GEUTEBRÜCK

Compax III

Networkable compact video matrix

Product information

Networkable, freely programmable video matrix including powerful management software for use in combination with an external control PC. Basic matrix unit with 32 video in- and 16 outputs and 32 contact in- and 16 relay outputs, controlled via serial or LAN interface by any PC. Extendable by one, CX3 Extension 32‘ up to 64 video in- and 16 outputs as well as 64 contact in- and 32 relay outputs.

- Compact LAN-controllable video matrix unit
- Full integration into the GEUTEBRÜCK system
- To be used as standalone or networkable satellite video matrix in larger systems
- Freely programmable via GeViSoft
- Computer-controlled video matrix
- Easy extension by one CX3 Extension 32

Technical data

	Basic unit - CX3 Basic 32/16	Extension unit - CX3 Extension 32
Video inputs	32 x composite video (BNC-sockets) 1 Vpp / 75 Ohm	
Video outputs	16 x composite video (BNC-sockets) 1 Vpp / 75 Ohm	-
Video standard	PAL (CCIR) or NTSC (EIA)	
Control (alarm) inputs	32, Connected via D-sub connector, TTL-compatible, 1 kOhm pullup resistor at 5 V Sabotage monitoring: Threshold at approx. 1,1 and 2,3 V (Nominal resistance 470 Ohm)	
Control outputs	16, Connected via D-sub connector, Relay contacts, 30 V, 1 A	
Interfaces	Serial, RS-232 via 9 pin D-sub plug, Network, 10/100 Base-T via RJ-45 plug	-
Power supply	6 - 9 V DC, External plug in power supply included in delivery	
Allowed DC-quota in video signal	-1 V / +2 V (75 Ohm)	
Gain	0 dB +/- 0.2 dB	
Cutoff frequency, one input switched on one output	15 MHz +1 dB / - 3 dB 5 MHz + 0 dB / - 0.2 dB	
Cutoff frequency, one input switched on all outputs	7 MHz +0 dB / - 3 dB	
Side-to-side coupling 0 to 5 MHz	< - 50 dB, typical - 55 dB	
Differential phase	< 2 °	
Differential gain	< 1 %	
Signal to noise ratio	> 50 dB	
Input current	max.< 1.5 A (All relays activated, all input contacts grounded, all video signals on and with DC-components)	
Operating temperature	0 - 50 °C	
Dimensions	19'' rack mountable, 3 HU, approx. 40 mm in depth (measured without connectors)	
Weight	2500 g	2150 g
Order No.	**0.27900**	**0.27910**

CompaxIII_EN 7.75531 06.07.2006

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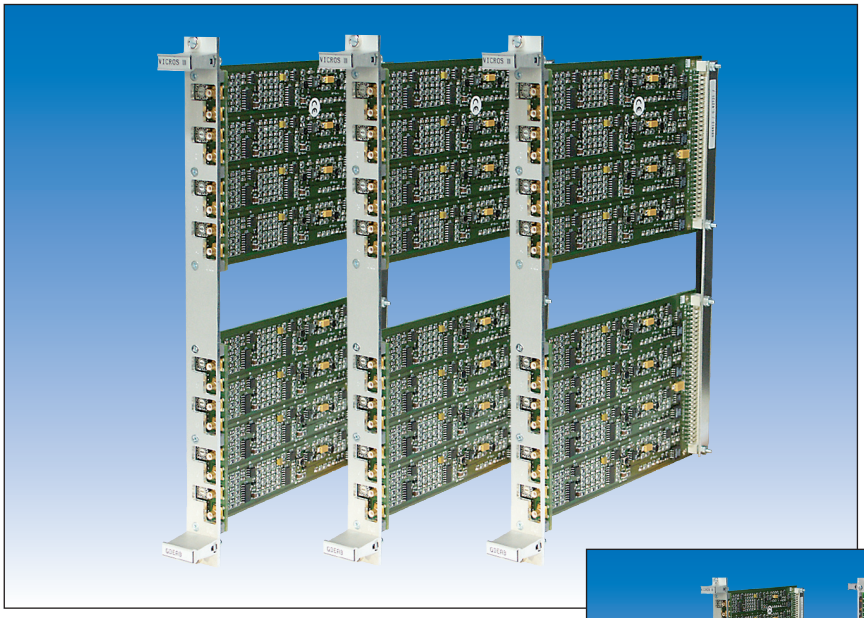
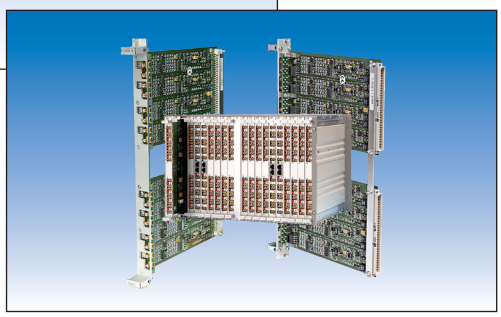
Product information

GEUTEBRÜCK

GDEA/8

The high-quality equalization amplifier with galvanic de-coupling





- Video signal equalization for cable lengths of up to 1.2 km with RG-59, or 1.9 km with RG-11
- Integrated galvanic de-coupling to eliminate “ground-loops”
- 8 Channel fits directly into to fit ViCros III matrix sub-racks

Technical data	
	GDEA/8
Video input and output connectors	Composite signal, 1Vpp / 75 Ω , SMB plugs, 8 x inputs/outputs
Input and output impedance	75 Ohm
Video standard	CCIR/PAL or EIA/NTSC
Input and output voltage	1.0 Vpp
Galvanic de-coupling	Limited to +/-60 V via surge protector
Equalization	+1 dB to +28 dB at 5 MHz as with 0 to max. 1200 m coaxial cable 0.6/3.7 individually adjustable for each channel
Crosstalk	< -50 dB at 0 to 5 MHz
Signal/noise voltage ratio	< -60 dB (with CCIR 421-2)
Differential phase	< +/-1°
Differential gain	< +/-5%
Set-up	16-steps, each step optimised for a length of 75 m 0.6/3.7
Frequency response via cable	0 to 900 m: 2 Hz to 10 MHz, +/-3 dB from 900 m: 2Hz to 7MHz, +/-3 dB
Supply voltage	+5 max. 250 mA (all 4 channels), connection via 2 x 64-pin DIN spring rails, power supply via BGT back plane
Dimensions	19“ sub-rack mounting 4 HP x 6 U
Order number	**0.42721**

Cable types	
GDEA is optimised for 0.6/3.7 cables. May be used with other types of coaxial cables.	
RG-59	Cable on the whole identical with 0.6/3.7.
1.0/6.6 RG-11	Because of this cable’s lesser attenuation, a maximum of approx. 1920 m can be equalised, approx. 120 m per switch position. Low frequencies are over-proportionally amplified (< 100 kHz).
0.4/2.5	Because of this cable’s higher attenuation, a maximum of approx. 800 m can be equalised, approx. 50 m per switch position. Low frequencies are under-proportionally amplified (< 100 kHz).
0.3/1.5 RG-179	Because of this cable’s distinctly higher attenuation, a maximum of approx. 480 m can be equalised, approx. 30 m per switch position. Low frequencies are under-proportionally amplified (< 100 kHz).

7.75241 V 1.0 09.03

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GEUTEBRÜCK

VS-40 Digitective

Real-time Videosensorsystem

Product information

The VS-40 Digitective is a self-contained CCTV monitoring system with a matrix and digital picture memory. A GEUTEBRÜCK system product with interfaces for easy connection to analogue and digital systems, and public protocols offering full flexibility for integration into higher level alarm management systems.

- Picture evaluation in real-time
- 64 alarm zones, adjustable in size, position, sensitivity and functionality
- Measuring cycles that can be adjusted independently
- Consequential suppression of false alarms
- Up to 1000 modules in one system
- Integrated in GEUTEBRÜCK GeViSoft / MultiScope III system architecture

Technical data

VMD and CU	3HU x 6HP (30 mm)
Rack	3HU x 19“, depth from mounting face: 370 mm including rear connections, sub-rack: 320 mm handles 50 mm All connections on back side
Weight	
VMD	Approx. 0.3 kg
BGT	Approx. 3.1 kg
Control unit (CU)	0.25 kg
Power supply	
Mains voltage	VS-40/BGT (110 - 230 VAC ± 15 %, 50/60 Hz)
Power consumption	BGT + 1 VMD: 10 W / BGT + 10 VMD + CU: 60 W
Detection zones	
VS-40/VMD-64S	64 zones, adjustable in size, location and function
VS-40/VMD-16X	4 x 16 zones per camera, adjustable in size, location and function
Field functions	Pre-alarm, main alarm, block alarm and suppression
Adjustment aids	On-screen, zone group displays with end, anchor and intermediate zones
Alarm evaluation	
VS-40/VMD-64S	Picture evaluation of every field in real time, measurement intervals adjustable: CCIR: 40 / 160 / 640 ms and 2.5 / 10 s, EIA: 33 / 133 / 533 ms and 2.1 / 8.5 s
VS-40/VMD-16X	Multiplexed picture evaluation, measurement intervals adjustable: CCIR (approx.): 240 / 640 ms and 2.5 / 10 s, EIA (approx.): 200 / 533 ms and 2.1 / 8.5 s
Adjustment aids	On-screen trace display for each measurement interval showing picture analysis
Settings	Windows 32-bit PC adjustment program VS40_SET2K
System capacity	
Addressing	Up to 1000 VMDs and 1 CU via serial interface
Group size	Recommendation: max. 50 VMDs or 5 BGTs
Freeze frame	
Number of pictures	4 fields or 2 frames per VMD
Resolution	Monochrome: 704 x 288 (field) or 576 (frame) pixels, 8-bit luminance per pixel (Storage of PAL or NTSC pictures with automatic standard recognition on)
Function	Alarm sequence, single picture per alarm sequence with pre-history (only for VS-40/VMD-64S). Integrated memory output function (only for VS-40/VMD-64S) for individual freeze frame video output via an unused video input socket output.
Video standard	CCIR (PAL, 50 Hz) or EIA (NTSC, 60 Hz), adjustable
Video inputs per VMD	
VS-40/VMD-64S	1 x BNC, 75 Ohm or high impedance with loop-through
VS-40/VMD-16X	4 x BNC, 75 Ohm or high impedance
Input voltage	Nominal 1 Vpp (max. 1.3 Vpp)
Video outputs	
Per VMD	1 x BNC, 75 Ohm
Common outputs	1 x live picture, 1 x freeze frame or manual live picture, 1 x recorder sequence or manual live picture
Control inputs	
Per VMD	Video select to output a, b, c, reset alarm, disarm VMD, external alarm in
Collective inputs	Reset alarms, disarm VMDs, enable video outputs, mode (user program) select 1 & 2
Per VMD	Alarm relay, video signal relay
Collective outputs	Alarm relay, video signal relay, recorder relay
System control	RS-485 and RS-232 (internal interface converter)
VS-40/CU	1 x RS-232 remote set-up
VS-40/CU	Central clock, time controlled mode switch, remote set-up
VS-40/GD	Galvanic decoupling per video input
G85/ICF	RS-232/RS-485 interface converters
G85/SP	Interface module for an additional RS-232 device

Technical alterations reserved

VS40_EN 7.75426 27.08.2007

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GEUTEBRÜCK

GeViScope-16, 16R, 16HR

System for digital storage and transmission of video and audio signals using multi standard compression

Product information

GeViScope basic unit for digital storage and transmission of video and audio signals combined with multi standard compression and latest image analysis algorithms for up to 16 audio and video channels. Digital video networking on TCP/IP basis (1 GBit Ethernet on board). Signal processor board for 4 audio and video channels inbuild, 3 optional signal processor boards GSC/DVSP4 can be added. Compression rate per channel 25/30 fps network livestream & 25/30 fps live recording (DualChannel-Streaming) with up to 2CIF resolution @ 2,5MBit/s. 4CIF resolution on request. Different function packages can be loaded to each individual camera channel: M-JPeg- and/or MPEG4CCTV-compression ideal to optimize the system performances to the project needs. Video norm PAL/NTSC and free configurable resolutions.

- Digital video matrix functionality based on TCP/IP (live & recorded pictures)
- Expandable step by step via plug in boards from 4 up to 8, 12 and 16 video and audio channels
- Suitable especially for event triggered recordings with high picture rates per camera
- Future-oriented conceptual design using highly flexible, digital signal processors (DSP) and newest PC-architecture
- Video management functionality based on internal programmable logic controller (GeViPLC)
- Flexible and modular system architecture in combination with software based function packages
- Dynamic user interface adaptations triggered by events or user profiles
- Picture replay fully compatible with MultiScope II plus and MultiScope III systems
- Integration of unlimited systems via network (LAN/WAN) using TCP/IP

Technical data

	GeViScope-16	GeViScope-16R	GeViScope-16HR
Video & Audio			
Videonorm	CCIR / PAL and EIA / NTSC, Studio quality (Sampling rate 13.5 MHz)		
Resolution	704 (H) x 288 (V) pixel (interlaced), 352 (H) x 288 (V) pixel (CIF), 176 (H) x 144 (V) pixel (QCIF), 704 (H) x 576 (V) pixel (4CIF/non-interlaced) 4 CIF resolution on request, 8 Bit luminance, 8 Bit chrominance		
Video inputs	16 x composite video (BNC-sockets, 1 Vpp / 75 Ohm), activation of 4, 8, 12 or 16 video inputs depending on number of inserted compression boards		
Audio inputs	16 x stereo (Cinch-sockets, 2 Veff at 0 dBFS), activation of 4, 8, 12 or 16 stereo channels depending on number of inserted compression boards, Sampling rates supported: 32 kHz, 44.1 kHz and 48 kHz, 16 Bit		
Video outputs for live and recorded pictures	1 x 15-pin VGA-connector (SVGA, SXGA, UXGA, 16.7 million colours, resolution depending on connected monitor up to 1600 x 1200 pixel)		
Audio outputs	1 x stereo (line out, stereo jack connector 3.5 mm)		
Interfaces			
Control inputs	16 internal control inputs, sabotage monitored (switchable)		
Relay outputs	8 internal relay outputs, 24 V DC, 1 A		
Serial	1 x serial interface (RS-232) expandable by additional PCI card to 4 x RS-232 (e.g. for camera remote control)		
Parallel	1 x parallel interface (Centronics)		
USB	Up to 8 x USB 2.0 interfaces, 2 at front side, 6 at rear side		
Ethernet	1 x Ethernet 10/100/1000 Base-T interface		
ISDN	Optional ISDN S0 via PCI card or external router		
PC-Keyboard, Mouse	PS/2-connectors at the rear side of the unit		
Diagnosis-display	Optional alternative diagnosis-display available (Connection via USB)		
Recording & Transmission			
Picture rates M-JPEG MPEG4CCTV	50/60 fps (CCIR/EIA) per channel processed: 25/30 fps (CCIR/EIA) for recording and 25/30 fps (CCIR/EIA) for live streaming per channel (Dual channel streaming) 2,5Mbit/s @ 2CIF resolution (50% M-JPEG) per channel		
Compression settings	Variable GOP length - VGL, Variable frame rate - VFR, Variable variable bit rate - VBR, Constant picture quality - CPQ		
Latency times MPEG4CCTV	Transmission: Low latency times < 150 ms comparable to M-JPEG, Time synchronous playback in real time like M-JPEG, Change over times/Display: Without delays like M-JPEG, Extremely optimized rewind display function without interruptions		
Database throughput (CCIR)	Up to 800 fps (32 channels x 25 fps/channel)		
Display throughput (CCIR)	150 - 200 fps (total sum over all Gsc/View-Viewers on a separate evaluation station)		
Soft-matrix (CCIR)	Real „live transmission“ with max. 25 fps per each available video channel		
Network cameras	GeViScope supports the direct diplay and storage of many of the following network camera types: JVC, AXIS, ARECONTVISION, IQInVision and Mobotix. The recording rate strongly depends on the type of network camera. Currently only M-JPEG picture streams can be recorded and displayed		
Storage media			
Internal	Max. 4 S-ATA hard discs for the multimedia database, currently 4 x 1TByte max. Standard hard disc mount (GeViScope-16 and GeViScope-16R) Integrated RAID-system (PCI S-ATA-RAID-Controller and 4-channel rack with removable hard disc retainers w/o hard discs) (GeViScope-16HR) Optional DVD-R drive for manual backup		
External	Optional SCSI-interface for up to 15 hard disk´cs (U2W-SCSI controller required) Optional external RAID-system (e.g. GeViRAID), further storage media on request		
General			
Operating system	Windows XP on a separate system hard disc (E)IDE 80 GByte		
Main memory	2 x 512 MB RAM in the basic version, expandable up to 4 x 1 GB RAM		
Power supply	Standard mains unit: 110 - 240 V AC / 60 - 50 Hz ± 10 %, 350 W (GeViScope-16) Redundant mains unit: 110 - 240 V AC / 60 - 50 Hz ± 10 %, 2 x 350 W (GeViScope-16R and GeViScope-16HR)		
Power consumption	Approx. 210 W fully equipped (S-ATA controller, S-ATA RAID with 4 hard disks, system hard disk)		
Mains connector	IEC 320 C13 appliance connector		
Environmental temperature	0 °C to + 35 °C		
Dimensions in mm: 19“-version Desktop version	 4 HE x 470 mm (depth) 443 x 175 x 470 (W x H x D)		
Weight	Approx. 18.5 kg net		
Order no.	**0.34800**	**0.34801**	**0.34802**

Technical alterations reserved

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GEUTEBRÜCK

GeViScope-SE (Server)

System for digital storage and transmission of video and audio signals

Product information

GeViScope Server, basic unit without internal compression hardware with preinstalled GeViScope Software including Licence-Dongle. Digital video system platform for storage and transmission of video and audio signals combined with multi standard compression and latest image analysis algorithms including digital video networking on TCP/IP basis (1GBit Ethernet on board). Platform for connecting external GeViScope extension units GeViScope-16E with M-JPeg and/or MPEG4CCTV compression algorithms as well as for storing and managing IP-camera pictures from different vendors.

- Digital video matrix functionality based on TCP/IP (live & recorded pictures)
- Multi standard compression in combination with external extension units GeViScope-16E possible
- Especially suitable for direct recording of network cameras
- Comprising latest PC-architecture for optimum system performance
- Video management functionality based on internal programmable logic controller (GeViPLC)
- Dynamic user interface adaptations triggered by events or user profiles
- Integration of unlimited systems via network (LAN/WAN) using TCP/IP
- Picture replay fully compatible with MultiScope II plus and MultiScope III systems

Technical data

Video & Audio	
Videonorm	In combination with GeViScope-16E: CCIR / PAL and EIA / NTSC Studio quality (Sampling rate 13.5 MHz)
Resolution M-JPEG & MPEG4CCTV	In combination with GeViScope-16E: 704 (H) x 288 (V) pixel (interlaced), 352 (H) x 288 (V) pixel (CIF), 176 (H) x 144 (V) pixel (QCIF), 704 (H) x 576 (V) pixel (4CIF/non-interlaced) 8 bit luminance, 8 bit chrominance
Video inputs	In combination with GeViScope-16E: 16 x composite video (BNC-sockets, 1 Vpp / 75 Ohm), activation of 4, 8, 12 or 16 video inputs depending on number of inserted compression boards
Audio inputs	In combination with GeViScope-16E: 16 x stereo (Cinch-sockets, 2 Veff at 0 dBFS), activation of 4, 8, 12 or 16 stereo channels depending on number of inserted compression boards, Sampling rates supported: 32 kHz, 44.1 kHz and 48 kHz, 16 Bit
Video outputs for live and recorded pictures	1 x 15-pin VGA-connector (SVGA, SXGA, UXGA, 16.7 million colors, resolution depending on connected monitor up to 1600 x 1200 pixel)
Audio outputs	1 x stereo (line out, stereo jack connector 3.5 mm)
Interfaces	
Control inputs	In combination with GeViScope-16E: 16 internal control inputs, sabotage monitored (switchable)
Relay outputs	In combination with GeViScope-16E: 8 internal relay outputs, 24 V DC, 1 A
Serial	1 x serial interface (RS-232) expandable by additional PCI card to 4 x RS-232 (e.g. for camera remote control)
Parallel	1 x parallel interface (Centronics)
USB	Up to 8 x USB 2.0 interfaces, 2 at front side, 6 at rear side
Ethernet	1 x Ethernet 10/100/1000 Base-T interface
ISDN	Optional ISDN S0 via PCI card or external router
PC-Keyboard, Mouse	PS/2-connectors at the rear side of the unit
Diagnosis-display	Not applicable for GeViScope-SE
Recording & Transmission	
Picture rates M-JPEG MPEG4CCTV	In combination with GeViScope-16E: 50/60 fps (CCIR/EIA) per channel processed: 25/30 fps (CCIR/EIA) for recording and 25/30 fps (CCIR/EIA) for live streaming per channel (Dual channel streaming) 2,5Mbit/s @ 2CIF resolution (50% M-JPEG) per channel
Compression settings	Variable GOP length - VGL, Variable frame rate - VFR, Variable variable bit rate - VBR, Constant picture quality - CPQ
Latency times MPEG4CCTV	Transmission: Low latency times < 150 ms comparable to M-JPEG, Time synchronous playback in real time like M-JPEG, Change over times/Display: Without delays like M-JPEG, Extremely optimized rewind display function without interruptions
Database troughput (CCIR)	In combination with 2 x GeViScope-16E: Up to 800 fps (32 channels x 25 fps/channel)
Display throughput (CCIR)	150 - 200 fps (total sum over all Gsc/View-Viewers on a separate evaluation station)
Soft-matrix (CCIR)	In combination with GeViScope-16E: Real „live transmission“ with max. 25 fps per each available video channel
Network cameras	GeViScope supports the direct diplay and storage of many of the following network camera types: JVC, AXIS, ARECONTVISION, IQInVision and Mobotix. The recording rate strongly depends on the type of network camera. Currently only M-JPEG picture streams can be recorded and displayed
Storage media	
Internal	Max. 3 S-ATA hard discs for the multimedia database, currently 3 x 1 TByte max. Standard hard disc mount, Optional DVD-R drive for manual backup
External	Optional SCSI-interface for up to 15 hard disk´s (U2W-SCSI controller required) Optional external RAID-system (e.g. GeViRAID), further storage media on request
General	
Operating system	Windows XP on a separate system hard disc (E)IDE 80 GByte
Processor	INTEL Pentium D (Dual core) inside or better
Main memory	2 x 512 MB RAM in the basic version, expandable up to 4 x 1 GB RAM
Power supply	Standard mains unit: 110 - 240 V AC / 60 - 50 Hz ± 10 %, 400 W
Power consumption	Approx. 200 W fully equipped (3 S-ATA hard disks, system hard disk)
Mains connector	IEC 320 C13 appliance connector
Environmental temperature	5 °C to + 40 °C
Dimensions in mm: 19“-version Desktop version	 4 HE x 437 mm (depth) 450 x 185 x 437 (W x H x D)
Weight	Approx. 12.2 kg net
Order no.	**0.34830**

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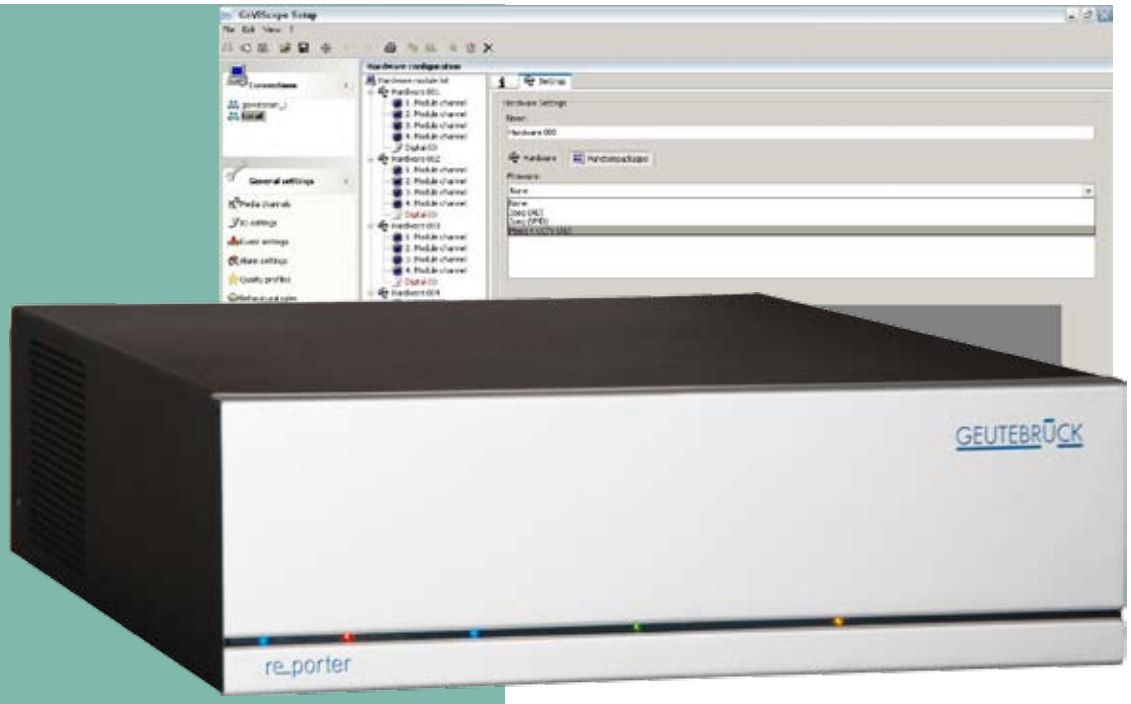
GEUTEBRÜCK

re_porter

Highly integrated video management system for digital storage and transmission of video signals based on MPEG4CCTV format

Product information



The basic unit provides 4, 8, 12 or 16 analog camera channels (BNC sockets). As a hybrid system it supports up to 16 IP-cameras of the most famous IP-camera suppliers - also megapixel cameras, suitable for a variety of applications. Its network compatibility allows to expand the system by adding an unlimited number of units. The permanent and event-triggered recording is possible with a maximum picture frame rate of 25 pictures/s per channel - at all picture formats. The unit provides an audio channel and allows lip-synchronous replay. The well proven Activity Detection is also part of the package. Compression is effected using MPEG4CCTV, the GEUTEBRÜCK-compression compliant with all standards and optimized for video surveillance purposes

- Digital video matrix functionality based on TCP/IP (live & recorded pictures)
- Event triggered recordings with high picture rates per camera
- Future-oriented conceptual design using highly flexible, digital signal processors (DSP)
- Video management functionality based on internal programmable logic controller (GeViPLC)
- Integrated Activity Detection and versatile backup function
- Simultaneous database access of up to 10 users possible
- Integration of unlimited systems via network (LAN/WAN) using TCP/IP
- Picture replay fully compatible with MultiScope II plus, MultiScope III and GeViScope systems

Technical data

Video & Audio	re_porter-4	re_porter-8	re_porter-12	re_porter-16
Videonorm	CCIR / PAL and EIA / NTSC Studio quality (Sampling rate 13.5 MHz)			
Resolution	704 (H) x 576 (V) pixel (4CIF [Frames]), 704 (H) x 288 (V) pixel (2CIF [field/interlaced]), 352 (H) x 288 (V) pixel (CIF), 176 (H) x 144 (V) pixel (QCIF), 8 Bit luminance, 8 Bit chrominance			
Video inputs	4, 8,12 or 16 x composite video (BNC-sockets, 1 Vpp / 75 Ohm) or alternative 4, 8, 12 or 16 IP based cameras via ethernet port			
Audio inputs	1 x stereo (line in, stereo jack connector 3.5 mm), Sampling rates supported: 32 kHz, 44.1 kHz and 48 kHz, 16 Bit			
Video outputs for live and recorded pictures	1 x 15-pin VGA-connector (SVGA, SXGA, UXGA, 16.7 million colours, resolution depending on connected monitor up to 1600 x 1200 pixel)			
Audio outputs	1 x stereo (line out, stereo jack connector 3.5 mm)			
Interfaces				
Control inputs	16 internal control inputs, sabotage monitored (switchable)			
Relay outputs	8 internal relay outputs, 24 V DC, 1 A			
Serial	1 x serial interface (RS-232), only expandable via USB to serial adapters or via PCI-Express extension board			
Parallel	1 x parallel interface (Centronics)			
USB	8 x USB 2.0 interfaces (2 front / 6 rear)			
Ethernet	1 x Ethernet 10/100/1000 Base-T interface			
PC-Keyboard, Mouse	PS/2-connectors at the rear side of the unit			
Recording & Transmission				
Picture rates MPEG4CCTV	Separate processing of storage and live transmission 5(DualChannelStreaming) 5Mbit/s @ 4CIF resolution per channel			
Compression settings MPEG4CCTV	Variable GOP length - VGL Variable frame rate - VFR Variable variable bit rate - VBR Constant picture quality - CPQ			
Latency times MPEG4CCTV	Transmission: Low < 150 ms Time synchronous playback in real time Change over times/Display: Without delays Extremely optimized rewind display function without interruptions			
Database throughput	Up to 100 fps (4 channels x 25 fps/ channel)	Up to 200 fps (8 channels x 25 fps/ channel)	Up to 300 fps (12 channels x 25 fps/ channel)	Up to 400 fps (16 channels x 25 fps/ channel)
Display throughput (Live/Recorded pictures)	Livestream: Up to 400 pictures/s in all available formats (Dynamic Live Streaming) // Recorded pictures - time sync GSCView- windows: Up to 400 fps [2CIF] // Recorded pictures - time asynchronous GSCView-windows: Approx. 250 - 350 fps [2CIF] (All values corresponds to a separate evaluation station equipped with an Intel Core 2 Duo > 2.4 GHz, 1 GB RAM accessing one re_porter-16 unit. All readings are given as total sum over all GSCView-windows)			
Soft-matrix	Real „live transmission“ with max. 25 fps per each available video channel			
Network cameras	re_porter supports the direct diplay and storage of many of the following network camera types: JVC, AXIS, ARECONTVISION, IQInVision and Mobotix. The recording rate strongly depends on the type of network camera. Currently only M-JPEG picture streams can be recorded and displayed			
Storage media				
Internal	Max. 2 S-ATA hard discs for the multimedia database and the operation system, currently 2 x 1 TByte max.			
External	Optional external storage media on request			
General				
Operating system	Windows XP on the configurable S-ATA hard disc			
Main memory	2 x 512 MB RAM			
Power supply	Mains unit: 110 - 240 V AC / 60 - 50 Hz ± 10 %, 300 W			
Power consumption	Approx. 115 W			
Mains connector	IEC 320 C13 appliance connector			
Environmental temperature	0 °C to + 35 °C			
Dimensions in mm: 19“-version Desktop version	3 HE x 415 mm (depth) 443 x 135 x 415 (W x H x D)			
Weight	Approx. 11.6 kg (incl. 2 hard disks)			
Order no.	**0.34834**	**0.34835**	**0.34836**	**0.34837**

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re_proter_EN 16.10.2007

GEUTEBRÜCK

GeViStationXP

Control PC for the GEUTEBRÜCK-Video-Management-Software GeViSoft

Product information

- GEUTEBRÜCK Design
- Stable metal sheet housing
- Wide range PSU
- 4 x serial interface card already inbuilt
- Prepared for 19“ rack mount

Technical data

Storage media / RAM	Internal min. 80 GB S-ATA CD-ROM-Drive, 512 MB RAM
Interfaces	
Serial	1 x RS-232, plus extension card for additional 4 x RS-232 (2 x RS-422)
Parallel	1 x Centronics
USB	Up to 8 x USB 2.0 (2 front / 6 rear)
Ethernet	10/100/1000 Base-T included in basic unit (1 GBit)
Alarm inputs	Optional, with Interbus extension card
Control outputs	Optional, with Interbus extension card
External clock synchronization	Optional, with extension card DCF-77 (only for Europe)
General	
Voltage supply	100 – 240 V AC / 60 – 50 Hz +/- 10 %, 400 W
Power consumption	From 50 W to 200 W depending on configuration
Mains connector	IEC 320 C13 appliance connector
Operating temperature	+ 5°C to + 40°C
Dimensions	
19“ rack mounted	4 HU x 437 mm (Depth)
Desktop version in mm	450 x 185 x 437 (W x H x D)
Weight	12.2 kg
Order No.	**0.34043**

GeViStationXP_EN_7.75376 18.10.2007

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GEUTEBRÜCK

GSCViewStation

Review and set-up workstation for the digital video system platform GeViScope

Product information

Evaluation station for GeViScope, MultiScope II, MultiScope III and setup station for GeViScope systems in the network with preinstalled Software GSCView

- GEUTEBRÜCK Design
- Stable metal sheet housing
- Wide range PSU
- GeViScope Software already installed
- 19” rack mountable

Technical data

Storage media / RAM	Internal min. 80 GB (E)IDE Optional: DVD-RW-Drive
Interfaces	
Serial	1 x serial interface (RS-232)
Parallel	1 x parallel interface (Centronics)
USB	Up to 8 x USB 2.0 interfaces, 2 at front side, 6 at rear side
Ethernet	1 x Ethernet 10/100/1000 Base-T interface
Video outputs for live and recorded pictures	1 x 15-pin VGA-connector (SVGA, SXGA, UXGA, 16.7 million colours, resolution depending on connected monitor up to 1600 x 1200 pixel)
Multi-Monitor VGA	Optional Dual-Monitor output: Twin-VGA/PCI-Express (5.35043)
Audio outputs	1 x stereo (line out, stereo jack connector 3.5 mm)
PC-Keyboard, Mouse	PS/2-connectors at the rear side of the unit
Transmission & Playback	
Display throughput	150 - 200 fps (total sum over all Gsc/View-Viewers)
General	
Operating system	Windows XP embedded (Multilingual)
Processor	INTEL Pentium D (Dual core) inside or better
Main memory	2 x 512 MB RAM
Power supply	110 - 240 V AC / 60 - 50 Hz ± 10 %, 300 W
Power consumption	From 50 W to 200 W depending on configuration
Mains connector	IEC 320 C13 appliance connector
Operating temperature	+ 5°C to + 40°C
Dimensions	
19“-version	3 HU x 420 mm (Depth)
Desktop version in mm	342 x 132 x 420 (W x H x D)
Weight	Approx. 9 kg
Order No.	**0.34820**

GSCViewStation_EN 29.10.2007

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MViewStationXP

Review and set-up workstation for the digital picture recording system MultiScope III

Product information

MultiView/Win review and setup workstation for MultiScope II+ and III networks, also applicable for use in combination with the graphical user interface MultiMap.

- GEUTEBRÜCK Design
- Stable metal sheet housing
- Wide range PSU
- 19” rack mountable

Technical data

Storage media	Internal min. 80 GB (E)IDE Optional: DVD-RW-Drive
Interfaces	
Serial	1 x serial interface (RS-232)
Parallel	1 x parallel interface (Centronics)
USB	Up to 8 x USB 2.0 interfaces, 2 at front side, 6 at rear side
Ethernet	1 x Ethernet 10/100 Base-T interface
Video outputs for recorded pictures	1 x 15-pin VGA-connector (SVGA, SXGA, UXGA, 16.7 million colours, resolution depending on connected monitor up to 1600 x 1200 pixel)
Multi-Monitor VGA	Optional Dual-Monitor output: Twin-VGA/PCI-Express (5.35043) in combination with MultiMap
Audio outputs	1 x stereo (line out, stereo jack connector 3.5 mm)
PC-Keyboard, Mouse	PS/2-connectors at the rear side of the unit
General	
Operating system	Windows XP embedded
Main memory	512 MB RAM
Power supply	110 - 240 V AC / 60 - 50 Hz ± 10 %, 300 W
Power consumption	From 50 W to 120 W depending on configuration
Mains connector	IEC 320 C13 appliance connector
Operating temperature	+ 5°C to + 40°C
Dimensions	
19“-version	3 HU x 420 mm (Depth)
Desktop version in mm	342 x 132 x 420 (W x H x D)
Weight	Approx. 9 kg
Playback / MultiView	
Modes of operation	Single picture forward/backward, play forward/backward, adjustable fast play forward/backward, pause (still image), next event/previous event, first picture/last picture
Speed	Time frame adjustable for each viewer
Image search	Camera number, date/time, event source, MOS (motion search) or by serial event data, etc.
Picture formate	Full screen and 4, 9, 16, 25 or 36-way split SVGA monitor only
Automatic display	Event controlled automatic display of alarm images via MultiView viewer client software locally and/or via network incl. ISDN (with MultiDial option) (user definable display modes per event, alarm still picture, playback from alarm event, virtual-live image, prehistory loop playback)
Backup	Manual archiving pictures/movies to standard storage media possible
Order No.	**0.37302**

MViewStationXP_EN 18.10.2007

Technical alterations reserved

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GEUTEBRÜCK

GeViRAID II

RAID system for use in combination with MultiScope III or GeViScope Systems

Product information

With GeViRAID II GEUTEBRÜCK offers a SCSI-TO-S-ATA based solution for reliable long term recordings of large data amounts. The unit combines state of the art storage technology and best prevention against failures together with a rugged and reliable mechanical construction. The system shows up with automatic monitoring of hard disks, fans, PSUs and temperature. An alarm relay output for detecting system failures and newest internal backplane technology in combination with latest internal controller architecture for up to RAID Level 6 satisfies also highest demands regarding functionality and reliability of a complete digital video storage and management system.

- Robust metal housing
- Supports RAID level 0, 1, 3, 5, 6, 30, 50, 60 and 0+1
- Up to 8 or 16 S-ATA II hard disks
- Network messages in case of an error
- Support of several RAID arrays (multiple RAID)
- Monitoring of hard disks, operating temperature, fans and power supply units
- Hot swap of hard disks, fans and power supply units
- Disk roaming function
- Security alarm relay

Technical data

Technical data	GeViRAID II/8	GeViRAID II/16
Host interface	2 x U320 SCSI	
Number of hard disks	Max. 8 S-ATA or S-ATA II	Max. 16 S-ATA or S-ATA II
Cache memory	Up to 1024 MB ECC (512 MB installed)	
RAID level	0, 1, 3, 5, 6, 30, 50, 60, 0+1, JBOD, Multiple RAID	
Hot spare hard disk	Several hot spare hard disks supported (Global spare(s))	
Hot swap	Hard disks, fans, power supply unit	
Online capacity expansion	Yes	
Remote parameterization	Via serial interface or web-browser	
Alarm messages	Remote transmission via network messages, SMTP, pager, fax Locally, optical and acoustic (inbuilt loudspeakers)	
Access protection	Front hood lockable	
Fan	4 x 80 mm hot swap, 3 x power supply	
Power supply units	3 x 350 Watt redundant	
Power supply	100 ~ 240 VAC, 47 - 63 Hz, 10 - 5 / 12 - 6 A FCC part 15, class B, EN55022, active power factor correction, PF > 0.95	
Operating temp.	0 °C ~ 50 °C	
Dimensions	177.8 mm (4HU) x 483 mm x 600 mm (H x W x D)	
Weight	31 kg without hard disks	
Order No.	**5.34740**	**5.34741**

GeViRAID II_EN_7.75601 26.10.2006

Technical alterations reserved.

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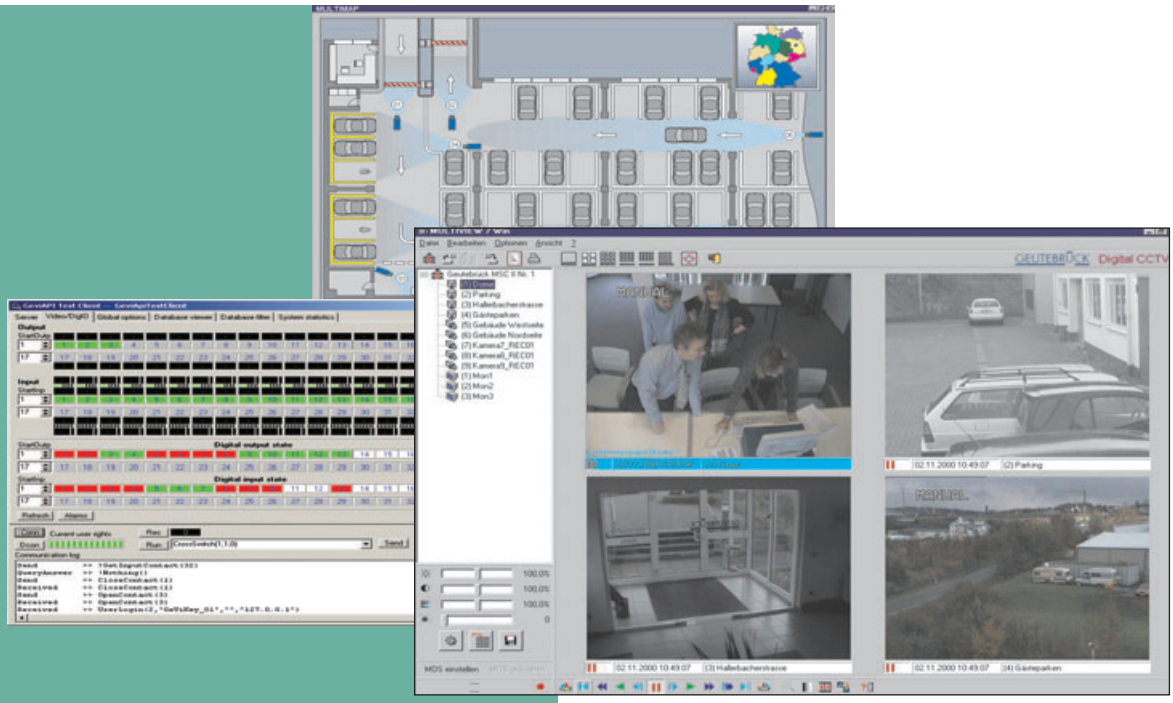
GEUTEBRÜCK

GeViSoft

Video management with system

Product information



The intelligent video management system from GEUTEBRÜCK. GeViSoft offers something not seen before – a TCP/IP-based integration of video matrices, digital CCTV, telemetry, analogue and serial interfaces, along with optional facilities for passing data to and from external systems. Optimally tailored to meet the tightest security requirements, and ideally capable of transparently representing complex security architectures. With GeViSoft you have even large installations and building complexes under control.

- Transparent graphical interface in complex security architectures
- Information only presented when relevant
- Connection of sub-systems via open interfaces
- Centrally controlled, networked digital picture recording and remote control
- Networked video matrix control with video routing
- Central administration and setup of all system ressources

Technical Data

GeViSoft is a management system software for comprehensive control of complex security and CCTV surveillance systems. Analogue and digital, network based CCTV components are operated via a user friendly GUI (graphical user interface) as a “single window application”.

GeViSoft targets the following applications:

- Security and surveillance systems
- Facility management systems
- Home & Building control systems

In large CCTV surveillance systems only a few camera inputs at a time are displayed on the control monitors. Most of the time, most of the cameras are left unwatched by the operator. The CCTV management system must provide intelligent information filtering to focus the user’s attention to relevant events and procedures, instead of presenting numerable monitors and other indicators.

GeViSoft allows manual camera-to-monitor switching or automatically presents camera pictures on specified monitors or monitor groups at an event. This way the system provides information only when the user’s attention and intervention is needed. Staff workload is reduced from making decisions needed to control the security system. Instead, at an alarm the system consequently reacts to handle the alarm in the correct way, independent of the operator.

The management software controls all functions for monitor switching – during alarms and in standard situations e.g.:

- Automatic camera cycles
- Remote control of cameras (PTZ)
- Supervision of all camera signals (sync signal and video signal monitoring) etc.

The reaction of GeViSoft during an alarm is programmable to a large variety of customized reactions. The following list is only a short extract of the possibilities:

- Switch camera inputs to free monitor outputs
- Queue the alarm inputs if there are alarms still pending
- Give sound signal or switch a digital output in case of a particular alarm (type)
- Store camera pictures to the digital video recorder MultiScope II
- Log activities which must be acknowledged by the operator within a certain timeframe with time/date information
- Search stored pictures by event kind etc.

GeViSoft is based on a modern client-server architecture using TCP/IP communication throughout the complete software design. It is independent of the hardware transmission layer and perfectly fits into network based applications, LAN and/or WAN.

7.75371 V2.0 DFS 10/04 1000

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